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=> carboxylate

65025 CARBOXYLATE

16566 CARBOXYLATES

L1 74140 CARBOXYLATE

(CARBOXYLATE OR CARBOXYLATES)

=> reaction(1)heat

2812259 REACTION

2028530 REACTIONS

3760573 REACTION

(REACTION OR REACTIONS)

1222907 HEAT

53689 HEATS

1236709 HEAT

(HEAT OR HEATS)

L2 110327 REACTION(L) HEAT

=> 11 and 12

L3 437 L1 AND L2

=> flash

52780 FLASH

3950 FLASHES

L4 54911 FLASH

(FLASH OR FLASHES)

=> 13 and 14

L5 1 L3 AND L4

=> d 15 ti fbib abs

ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN L5 ΤI Reduced solvent process for preparation of aqueous polyurethane/urea dispersions with improved heat and water resistance AN 1997:421640 CAPLUS DN 127:96038 Reduced solvent process for preparation of aqueous polyurethane/urea TI dispersions with improved heat and water resistance Duan, Youlu; Stammler, Sonja IN PA H.B. Fuller Licensing and Financing, Inc., USA U.S., 7 pp., Cont.-in-part of U.S. Ser. No. 304,653. SO CODEN: USXXAM DT Patent English LA FAN.CNT 10 KIND DATE APPLICATION NO. DATE PATENT NO. ---------US 1995-528936 PΙ 19970610 19950915 US 5637639 Α US 1994-304653 A2 19940909 US 5608000 Α US 1994-304653 19940909 19970304 B2 19930924 US 1993-126508 CA 2202245 AA 19970320 CA 1996-2202245 19960911 US 1995-528936 A 19950915 CA 2203880 CA 1996-2203880 19960911 AA 19970320 A 19950915 US 1995-528936 US 1996-683941 A 19960718 WO 1996-US14445 WO 9710273 19970320 19960911 A1 W: AU, BR, CA, CN, JP, KR, MX, NZ, SG, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE US 1995-528936 A 19950915 A 19960718 US 1996-683941 WO 9710274 **A1** 19970320 WO 1996-US14447 19960911 W: AU, CA, CN, JP, KR, MX, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE A 19950915 US 1995-528936 19970401 AU 1996-69715 AU 9669715 **A1** 19960911 AU 703066 **B2** 19990311 US 1995-528936 A 19950915 WO 1996-US14447 W 19960911 'AU 9670164 A1 19970401 AU 1996-70164 19960911 AU 688695 **B2** 19980312 US 1995-528936 A 19950915 US 1996-683941 Α 19960718 WO 1996-US14445 19960911 EP 792302 19970903 EP 1996-930785 19960911 **A1** R: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE US 1995-528936 Α 19950915 WO 1996-US14447 19960911 EP 792303 **A1** 19970903 EP 1996-931499 19960911 R: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE US 1995-528936 A 19950915 US 1996-683941 19960718 Α WO 1996-US14445 W 19960911 BR 9606647 19970930 BR 1996-6647 19960911 Α US 1995-528936 19950915 US 1996-683941 Α 19960718

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CN 1165526

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AB A process for preparing poly(urethane/urea) prepolymers is disclosed. The method employs a water-soluble volatile organic solvent, such as acetone, at a level of 0.1-5%, based on final dispersion weight, a level which does not require removal for purposes of flash point considerations. The method includes the steps of reacting in the presence of the solvent above a polyisocyanate component comprising a diisocyanate, with a polyol component bearing carboxylate and sulfonate groups to produce an isocyanate terminated polyurethane prepolymer; dispersing the prepolymer in aqueous media; reacting with at least one amine functional chain extender or chain terminator compound to thereby form said poly(urethane/urea) polymer; neutralizing the carboxylate and sulfonate groups of said prepolymer with an alkali hydroxide or a tertiary amine prior to, or simultaneous with, said reaction of said prepolymer and said amine functional chain extender or terminator; wherein the method is performed without a solvent distillation step. Thus, heating a sulfonate group-containing polyester polyol (Rucoflex XS5483-55) with dimethyolpropionic acid, 1,4-butanediol, IPDI and HMDI in acetone at 70°, neutralizing the resulting prepolymer with Et3N, and adding ethylenediamine in water gave a dispersion, cast film made from which had good heat and water resistance.

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COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION

FULL ESTIMATED COST 19.01 19.22

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)
SINCE FILE TOTAL ENTRY SESSION

CA SUBSCRIBER PRICE -0.73 -0.73

SESSION WILL BE HELD FOR 60 MINUTES STN INTERNATIONAL SESSION SUSPENDED AT 07:29:27 ON 27 JUN 2005